

# CONSTRUCTION EQUIPMENT VOLVO A40G 752073 - DIESEL ENGINE



Sample No: VCP439654

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

VOLVO	NFORMATION				
_	AFURMATIUN				
Sample Number		VCP439654	VCP444108	VCP433435	
Sample Date		08 Jun 2024	12 Mar 2024	30 Nov 2023	
Machine Hours		1792	1131	527	
Oil Hours		0	500	527	
Oil Changed		Changed	Changed	Changed	
Sample Status		ATTENTION	ATTENTION	ATTENTION	
OIT CONDI.	TION				
Visc @ 100°C	cSt	12.0	12.2	11.0	
Base Number (BN)		■8.7	8.3	<b>■</b> 5.4	
Oxidation (PA)	%	74	76	56	
Oxidation (FA)	70	74	70	50	
VOLVO					
CONTAMIN	IATION				
Water	%	NEG	NEG	NEG	
Soot %	%	■ 0.2	■0.2	□ 0.2	
Nitration (PA)	%	64	68	83	
Sulfation (PA)	%	59	60	52	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	□0.4	
Silicon	ppm	<b>■8</b>	<b>1</b> 0	□30	
Sodium	ppm	<b>-</b> <1	2	<b>2</b>	
Potassium	ppm	1	<b>-</b> <1	<b>1</b> 5	
	PP				
WEAR ME	TAIC				
_			<u>-</u>		
Iron	ppm	■8	■10	□ 17	
Copper	ppm	<b>10</b>	<b>5</b> 4	■281	
Lead	ppm	<b>■</b> <1	<b>1</b>	<b>3</b>	
Tin	ppm	<b>1</b>	<b>-</b> <1	■3	
Aluminum	ppm	<b>2</b>	<b>2</b>	<b>2</b>	
Chromium	ppm	<b>■&lt;1</b>	<b>-</b> <1	□ 0	
Molybdenum	ppm	<b>42</b>	■50	■ 84	
Nickel	ppm	<b>■&lt;1</b>	<b>2</b>	<b>2</b>	
Titanium	ppm	<1	<1	0	
Silver	ppm	<b>■</b> 0	0	■0	
Manganese	ppm	<b>■&lt;1</b>	<b>-</b> <1	<b>2</b>	
Vanadium	ppm	0	<1	<1	
ADDITIVES					
Calcium	ppm	<b>1485</b>	■1846	□2132	
Magnesium	ppm	<b>■</b> 536	<b>554</b>	61	
Zinc	ppm	<b>1063</b>	■1249	<b>1233</b>	
Phosphorus	ppm	<b>820</b>	<b>1</b> 019	□ 1048	
Barium	ppm	<b>0</b>	<u> </u>	<u> </u>	
Boron	ppm	<b>28</b>	<b>2</b> 7	■32	



#### **RIPA AND ASSOCIATES**

10149 FISHER AVENUE TAMPA, FL US 33619 Contact: PM Services PMServices@ripaconstruction.com F:

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: RIPTAM **Unique No:** 11077130 Signed: Don Baldridge Report Date: 17 Jun 2024

Contact/Location: PM Services ? - RIPTAM



## **CONSTRUCTION EQUIPMENT**





